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Github: <https://github.com/vardhan141/icp2deep_learning>

video link: https://drive.google.com/file/d/122R7ETZWyWMGeKTyZwE26FB-pvDuAPJU/view?usp=sharing

A white rectangular object with a black border

Description automatically generated

Here we first mount the drive and we read the diabetes csv file and print the shape which is (768,9)

A screen shot of a computer

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Description automatically generatedhere we used the sample code given for creating model and got 72 percent accuracy and test accuracy is 0.6458

1st question

1. Use the use case in the class:

a. Add more Dense layers to the existing code and check how the accuracy changes

A screen shot of a computer

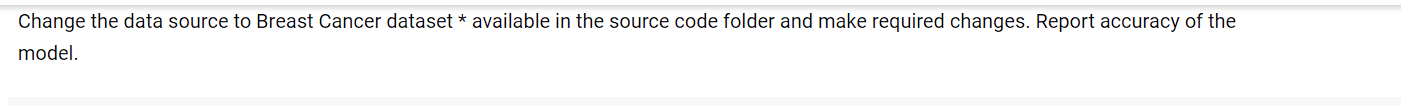
Description automatically generated

Here I added two more layers and ran the model

A screenshot of a computer

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We got the train accuracy as 74% and test accuracy as 72 which better due to adding layers



A screen shot of a computer code

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here we use the breast cancer dataset where we map the diagnosis column to 1 and 0 and drop diagnosis and id and unnamed as they are not useful.

Here the train dataset has 30 columns because we dropped 3 columns and used Adam optimizer

A screenshot of a computer

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The train accuracy is 96 and test accuracy is 92%

A screenshot of a computer

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A computer code with many colorful text

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The train accuracy and test accuracy are given by 92 and 91 after scaling

A screenshot of a computer

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A computer code with text

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The train accuracy and test accuracy for mnist dataset are 99 and 98 percent

A screenshot of a computer code

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